

# BECx EDUCATION WORKSHOP

## BUILDING ENCLOSURE COMMISSIONING

Tuesday, April 16, 2019 | 8:00 am - 4:30 pm

DURING:

**CxEnergy 2019 Conference & Expo**

April 15-18, 2019 | Caribe Royal Orlando Hotel | Orlando, Florida



Attend the **National Institute of Building Sciences (NIBS) Building Enclosure Commissioning (BECx) Workshop** held in conjunction with CxEnergy 2019 and earn credits toward a joint NIBS/ASTM certificate in BECx.

This workshop offers three, two-hour modules as part of the NIBS/ASTM education certificate program:

- **BECx Standards and Process:** an introduction to the process and requirements outlined by ASTM, LEED and the IgCC.
- **BECx Laboratory Testing:** a review of lab test standards and manufacturer testing used to set performance standards in project specs.
- **BECx Control Layers 2:** theories and best practices for design and installation of insulation and thermal breaks, as well as air and vapor barriers.

Complete all eight BECx modules through NIBS to be eligible to earn an ASTM/NIBS BECx certificate upon passing an exam.

The American Institute of Architects (AIA) has approved this workshop for 6 AIA health, safety and welfare (HSW) learning units (LUs).

**Registration:** \$250 (includes breakfast and lunch)  
Participants receive a 10% discount to CxEnergy 2019 with promo code NIBS10.

### Meet your workshop instructors:

**Will Babbington, AIA, PE, LEED AP BD+C**  
Principal and Façade Design Director  
Studio NYL, Denver, CO

**Elizabeth O. Cassin, RA, LEED AP**  
Associate Principal and Unit Manager  
Wiss, Janney, Elstner Associates, Inc.  
Chicago, IL

**Andrea DelGiudice, PE**  
Senior Associate  
Wiss, Janney, Elstner Associates, Inc.  
Washington, DC

**Brian H. Neely, AIA, CDT, BECxP**  
Senior Project Manager  
Gale Associates Inc.  
Weymouth, MA





## BECx EDUCATION WORKSHOP

BUILDING ENCLOSURE COMMISSIONING

### MODULE DETAILS

- BECx Standards and Process:** This module will provide an introduction to the BECx process and requirements outlined in the following documents: *ASTM E2813: Standard Practice for Building Enclosure Commissioning* (the standard upon which this course is based); *ASTM E2947: Standard Guide for Building Enclosure Commissioning*; *LEED v4 for Building Design and Construction*; and the *International Green Building Code*. *NIBS Guideline 3-2012: Building Enclosure Commissioning Process* will also be discussed as it relates to ASTM E2947 and LEED v4. The program will include an overview of the requirements for the BECx process in each of these documents; discussion of potential challenges, as well as opportunities for implementing BECx within each of these standards.
- BECx Laboratory Testing:** This module will introduce laboratory test standards and manufacturer testing that is used to set performance standards in project specifications. The process and requirements for project laboratory mock-up tests, including for structural, air leakage and water penetration, etc., will be reviewed. The program will explain the methodologies and rationales for specific tests required by ASTM International, National Fenestration Ratings Council (NFRC) and American Architectural Manufacturers Association (AAMA). The presentation will cover manufacturer testing and performance laboratory mock-up testing, as well as specific protocols for testing.
- BECx Control Layers 2:** This module will present theories and practices that center on design and specification of “layers” for air leakage and air leakage control, in particular, air barriers. It also will explain the enclosure’s role in sheltering the building against water and vapor penetration, most particularly at the joints between materials or components. It will discuss BECx design reviews in terms of the control layers that protect the enclosure.

NIBS BECx Workshop participants receive a 10% discount to the CxEnergy 2019 Conference & Expo, to be held April 16-18, at the Caribe Royal Orlando Hotel in Orlando, Florida. The sixth annual CxEnergy Conference & Expo provides topical, in-depth educational presentations for commissioning; testing, adjusting & balancing (TAB); and energy management professionals. Hear case studies and best practices on how to optimize building performance; extend the life cycle of vital heating, ventilation and air conditioning (HVAC) equipment and building systems; and improve occupant comfort. Over 40 companies in the Expo Hall will showcase software, instruments, controls and services for building, facility and measurement & verification (M&V) managers.

CxEnergy is presented by the AABC Commissioning Group (ACG), the Associated Air Balance Council (AABC) and the Energy Management Association (EMA). Supporting Organizations include the National Institute of Building Sciences (NIBS), Continental Automated Buildings Association (CABA), Clean Energy Business Network (CEBN), Society of American Military Engineers (SAME) and Project Haystack.

**Use promo code NIBS10 to receive a 10% discount. Register at [www.CxEnergy.com](http://www.CxEnergy.com).**

**Cx**  
**ENERGY**  
**2019**  
CONFERENCE & EXPO  
APRIL 15-18  
ORLANDO, FL